WHAT IS CLAIMED IS:

1   1.   A method for compiling program files comprising:

2   optimizing the program files into object files, wherein the object files are comprised

3   of information indicating optimization;

4   maintaining cross modular functional relationship between object files;

5   extracting the information indicating optimization; and

6   linking the object files to create an executable output file.

1   2.   The method for compiling program files of claim 1 further comprising:

2   creating intermediate representation files prior to optimizing the program files.

1   3.   The method for compiling program files of claim 2 wherein information is

2 extracted regarding the intermediate representation files.

1   4.   The method for compiling program files of claim 1 wherein the object files are

2 further comprised of:

3   information related to code generators.

1   5.   The method of claim 4 of compiling program files further comprising:

2   extracting the information related to code generators.

1   6.   A framework for compiling program files comprising:

2   an optimizer for optimizing program files into object files, wherein the object files are

3   comprised of information indicating optimization; wherein the optimizer

4   further extracts the information indicating optimization; and

5   a linker linking the object files to create an executable output file.

1   7.   The framework for compiling program files of claim 6 wherein:

2   the optimizer creates intermediate representation files..

1   8.   The framework for compiling program files of claim 7 wherein the optimizer

2 extracts information regarding the intermediate representation files.

1   9.   The framework for compiling program files of claim 6 wherein:

2   the object files are further comprised of:

3   information related to code generators.

1   10.   The framework for compiling program files of claim 9 wherein:

2   the optimizer extracts the information related to code generators.

1   11.   A computer system comprising:

2   a processor;

3   a computer readable medium coupled to the processor; and

4   computer code, encoded in the computer readable medium, configured to cause the

5   processor to compile program files comprising of:

6   optimizing the program files into object files, wherein the object files

7   are comprised of information indicating optimization;

8   maintaining cross modular functional relationship between object files;

9   extracting the information indicating optimization; and

10   linking the object files to create an executable output file.

1   12.   The computer system of claim 11 wherein the processor is further configured

2 to comprise of:

3   creating intermediate representation files prior to optimizing the program files.

1   13   The computer system of claim 12 wherein information is extracted regarding

2 the intermediate representation files.

1   14.   The computer system of claim 11 wherein the object files are further

2   comprised of:

3   information related to code generators.

1   15.   The computer system of claim 14 wherein the processor is further configured

2   to comprise of:

3   extracting the information related to code generators.

1   16.   An apparatus for compiling program files comprising:

2   means for optimizing the program files into object files, wherein the object files are

3   comprised of information indicating optimization;

4   means for maintaining cross modular functional relationship between object files;

5   means for extracting the information indicating optimization; and

6   means for linking the object files to create an executable output file.

1   17.   The apparatus for compiling program files of claim 16 further comprising:

2   means for creating intermediate representation files prior to optimizing the program

3   files.

1   18.   The apparatus for compiling program files of claim 17 wherein information is

2   extracted regarding the intermediate representation files.

1   19.   The apparatus for compiling program files of claim 16 wherein the object files

2   are further comprised of:

3   information related to code generators.

1   20.   The method of claim 19 of compiling program files further comprising:

2   extracting the information related to code generators.

1   21.   A computer program product, encoded in computer readable media,
2   comprising:
3   a first set of instructions, executable on a computer system, configured to optimize
4   program files into object files, wherein the object files are comprised of
5   information indicating optimization;
6   a second set of instructions, executable on the computer system, configured to
7   maintaining cross modular functional relationship between object files;
8   a third set of instructions, executable on the computer system, configured to extract
9   the information indicating optimization; and
10   a fourth set of instructions, executable on the computer system, configured to link the
11   object files to create an executable output file.

1   22.   The computer program product of claim 21 further comprising:
2   a sixth set of instructions, executable on a computer system, configured to create
3   intermediate representation files prior to optimizing the program files.

1   23.   The computer program product of claim 2 wherein information is extracted
2   regarding the intermediate representation files.

1   24.   The computer program product of claim 21 wherein the object files are further
2   comprised of:
3   information related to code generators.

1   25.   The computer program product of claim 24 further comprising
2   a sixth set of instructions, executable on a computer system, configured to extract the
3   information related to code generators.